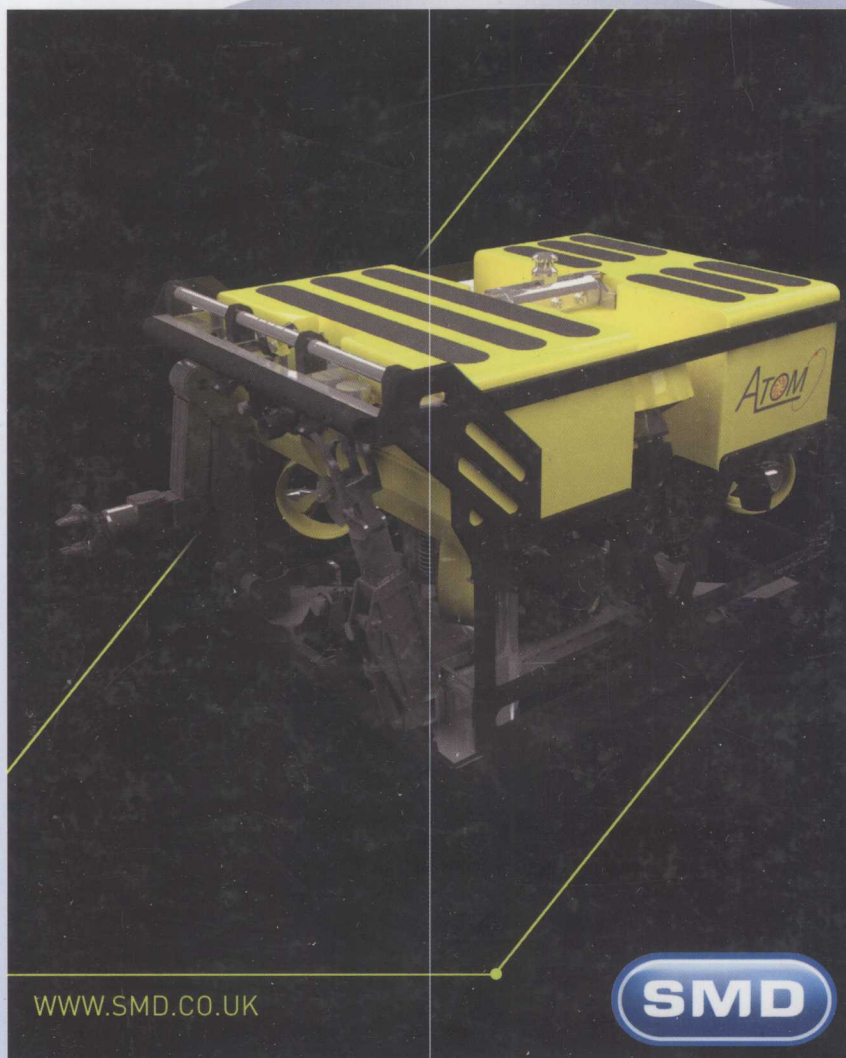
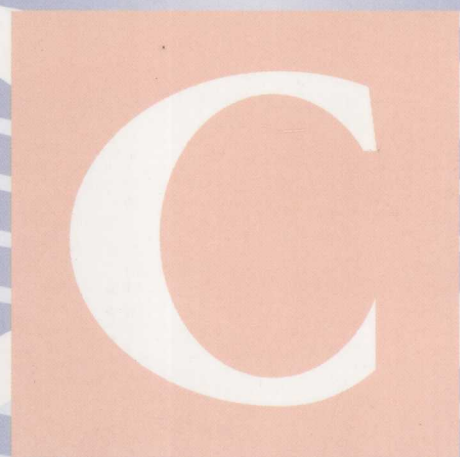


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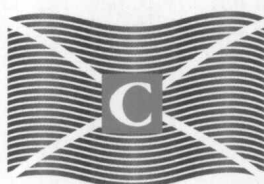
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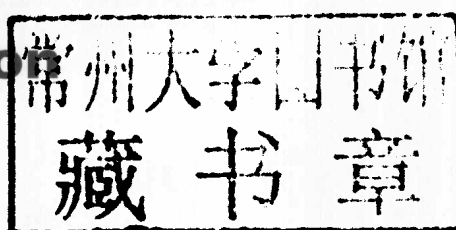


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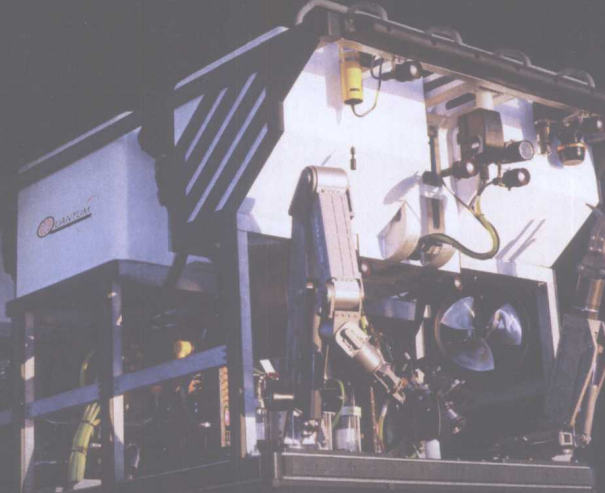
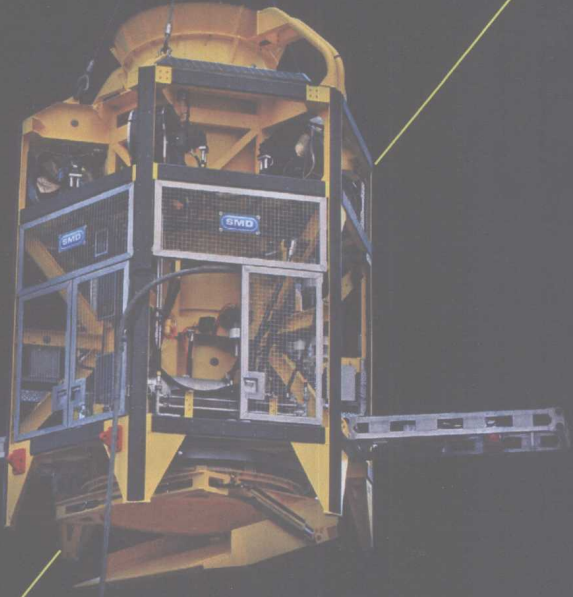
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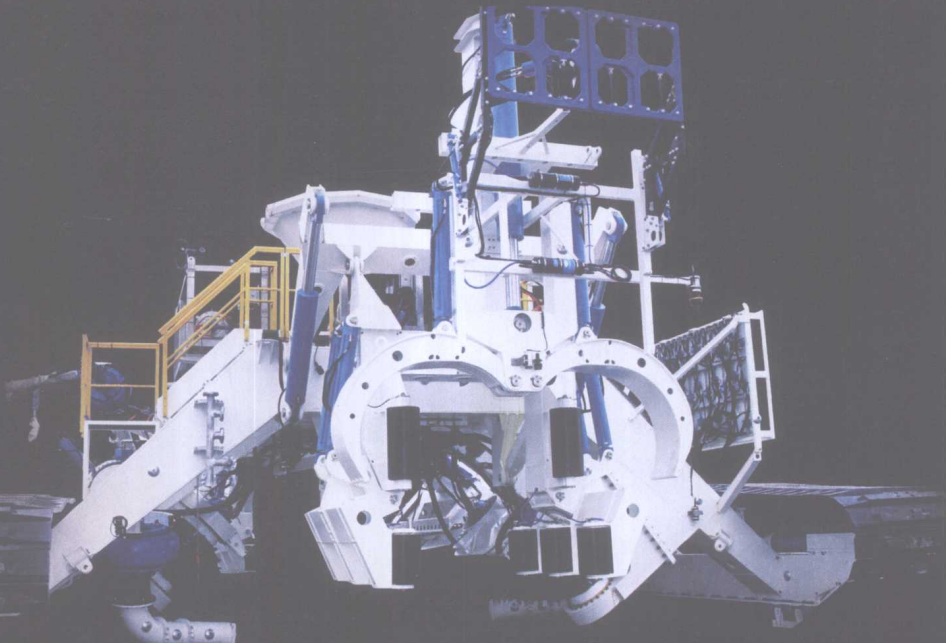
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*Front cover:
SMD's ATOM Ultra Compact Work Class ROV*



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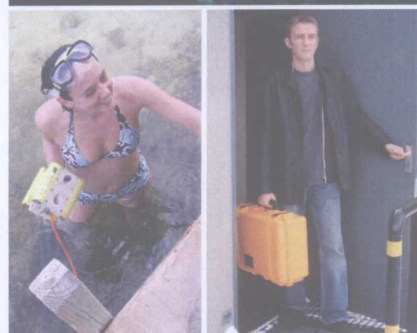
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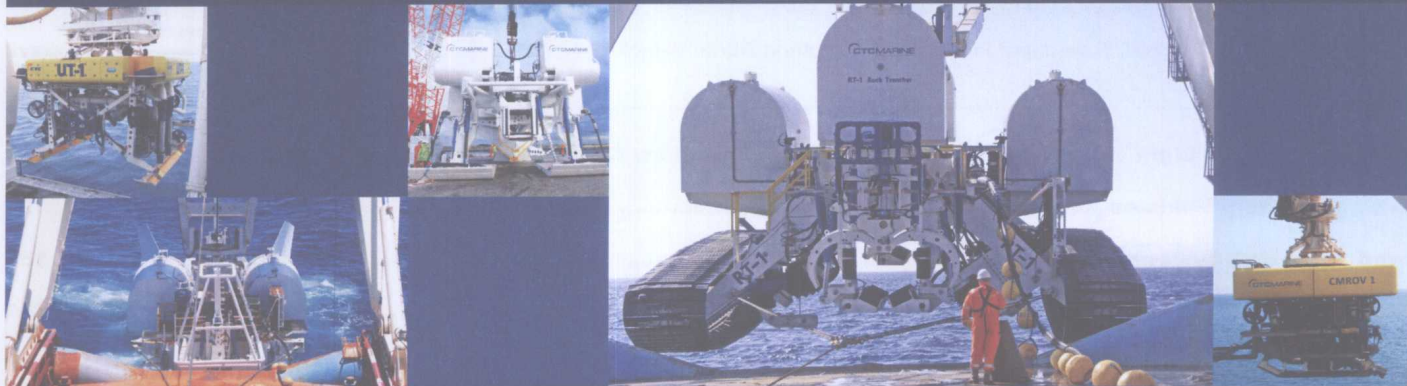
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Welcome to the ninth edition of **Remotely Operated Vehicles of the World** – the most comprehensive and informative industry reference document available.

At the time of writing this introduction the world is just emerging, hopefully, from the brink of financial catastrophe – or the credit crunch as it is known. As with all industries this has affected the ROV/AUV market with a number of operators going to the wall, cuts in budgets and a lack of confidence reducing orders. However, all the signs suggest this will be more of a 'blip' than a long term depression for our market. The price of oil has remained high and continues to increase as world demand places pressure on supply. The offshore oil and gas industry will continue to be the main market for our industry. The move to look for oil in ever deeper water and subsea production will be the key technology drivers.

What will be key trends in technology development over the next decade? Over recent times there has been a trend of increasing power in electro-hydraulic Work class ROVs to the point where you have to question the motives. I think we will begin to see demand for more compact systems with greater capability. Electric ROVs continue to increase in size and power, and we are starting to see all electric tools and manipulators being marketed. The all electric ROV presents a big opportunity for future development.

ROV control systems have developed greatly in the past decade. Features to aid pilots such as dynamic positioning and auto-pilot functions have now become standard on many ROVs increasing operational efficiency. It will be interesting to see the next steps in the development of vehicle autonomy and self-intelligence which could lead to AUV/ROV hybrids performing tasks without pilot control. With the ready availability of broadband we may see ROVs undertaking inspection in areas such as the Arctic being controlled and monitored from an office in Aberdeen.

Mini ROVs continue to increase in capability and variety, providing very able tools at a low cost. There are great opportunities to use them in association with larger vehicles of all types where they can provide an extra pair of eyes or even a hand using their manipulators. There would also seem to be potential to apply the advances in 3-D cameras for the use of ROV intervention. It still defies belief how pilots can use manipulator arms without any sense of depth of field from the 2-D cameras we use today.

ROVs are also opening up new frontiers in underwater development. One of these is the mining of minerals and deposits around black smokers in deepwater seafloors. The application of technology from the oil and gas industry is making the extraction of these deposits economical at today's elevated commodity prices. High powered earth moving crawlers which have been developed to trench oil and gas pipelines for stability and protection provide a platform for deploying cutters and dredgers for removal of these remote ores. The offshore oil and gas industry has demonstrated that hydrocarbons can be extracted with regard to the environment, and these same values and standards must be pro-actively applied to this new mining industry.

ROVs will have an important part to play in the emerging offshore renewable energy market. If we are to achieve the ambitious targets we have set ourselves to increase the proportion of energy we use from renewables means these offshore wind, wave and tidal development will need to be accelerated. The safe and efficient construction and maintenance of the different forms of offshore energy capturing devices will need many different types of ROVs.

The ROV/AUV industry has always been an exciting one to be part of, but never more so than today. We all need to make sure we are playing our part to attract, develop and retain bright, young engineers. Governments and individuals are beginning to realise that successful economies cannot rely on the 'financial industry', and that high tech industries are more reliable. I would also argue it's a more fulfilling and satisfying way to spend your life's work!

I sincerely hope that you find this edition of **Remotely Operated Vehicles of the World** an interesting and informative source of reference material. The breadth and capability of the technology it describes is truly amazing. It will be interesting to refer back to it at the end of this decade and see just how far we have journeyed!

Michael Jones

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Email admin@jamstec.go.jp
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Urashima
UROV7K

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Tel +47 32 28 82 00
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Email office@kongsberg.com
Internet www.kongsberg.com

C' Inspector
Minesniper
Minesniper Mk II

Kongsberg Maritime AS

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3183 Horten
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Tel +47 33 03 41 00
Fax +47 33 04 47 53
Email svein.otto.schjerven@kongsberg.com
Internet www.km.kongsberg.com

HUGIN 1000
HUGIN 1000 (3000m version)
HUGIN 3000
HUGIN 4500

Kraft TeleRobotics Inc

11667 West 90th Street
Overland Park
KS 66214
USA
Tel +1 913 894 9022
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M5-A Scout

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Fax +47 52 70 62 01
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Taipan 1
Taipan 2
Taipan 300

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Trenching Machines TMIV and TMVII

LD TravOcean

Les Docks-Atrium 10.4
10 Place de la Joliette
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13 567 Marseille Cedex 02
France
Tel +33 491 04 42 00
Fax +33 491 33 85 05
Email ldtravocean@ldtravocean.com
Internet www.ldtravocean.com

COPS Seabed Tractor
ESV 07/3 Towed Plough
ESV 11/3 Towed Plough
Mermec 1
Remote Operated Matress Spreader Bar (ROS)
ROVJET 400 Series
TM 03
TM 04

Liquid Robotics Inc

1901 Embarcadero Road
Suite 106
Palo Alto
CA 94303
USA
Tel +1 650 493 6300
Fax +1 650 493 6308
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Internet www.liquidr.com

Wave Glider™

Lockheed Martin

Maritime Systems and Sensors (MS2)
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Washington
DC 20003
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Email jack.papp@lmco.com
Internet www.lockheedmartin.com/ms2/

Marlin
RMMV Remote Multi Mission Vehicle



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Focus 2
Triaxus

Machine Intelligence Laboratory

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Email ems@mil.ufl.edu
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SubjuGator 6b

Malm Orstad AS

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4354 Voll
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Fax +47 51 42 46 31
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Internet www.malmorstad.no

SCV Solo Mk 2

Marine Exploration Services

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Fax +1 512 514 0960
Email andrew.tull@marineexp.com
Internet www.marineexp.com

Nova Ray

Marine Magnetics Corp

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Fax +1 905 479 9484
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Internet www.marinemagnetics.com

SeaQuest

Marine Technology Laboratory

Bremerhaven University of Applied Science
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Email ozielinski@hs-bremerhaven.de
Internet www.hs-bremerhaven.de

EdVaRD

Mariner Underwater Electronics

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Greece
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Fax +30 210 4100 658
Email marhge@otenet.gr
Internet www.mariner.gr

Ippodamus

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Fax +49 4346 6000 494
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Internet www.mariscope.de

Commander
Diavolo-II
FO-II

Marport Deep Sea Technologies Inc

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Fax +1 709 757 5858
Email sales@marport.com
Internet www.marport.com

SQX-500

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Fax +1 709 737 4042
Email ron@mun.ca
Internet www.engr.mun.ca

C-Scout 2

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Norway
Tel +47 46 90 50 00
Fax +47 22 83 65 15
Internet www.miko.no

Steel Climber

Mitsui Engineering & Shipbuilding Co Ltd

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Fax +81 3 5202 3064
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Index of ROV Builders and Developers

Aqua Explorer 2
Aqua Explorer 2000
Dolphin-3K
Kaiko

Mitsui Engineering & Shipbuilding Co Ltd/Institute of Industrial Science

see Mitsui Engineering & Shipbuilding and Institute of Industrial Science

Kuni
Moguru Kun
NSS (Navigable Sampling System)
RTVD-100MKIIE
Senta Kun
Tan-Tan

Mobile & Marine Robotics Research Centre (MMRRC)

University of Limerick
Plassey Industrial Estate
Castletroy
Co. Limerick
Republic of Ireland
Tel +353 61 20 2264
Fax +353 61 33 8176
Email daniel.toal@ul.ie
Internet www.ul.ie

ROV LATIS

Monterey Bay Aquarium Research Institute

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Moss Landing
CA 95039-9644
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Tel +1 831 775 1700
Fax +1 831 775 1620
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Doc Ricketts
Mapping AUV

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Tel +44 23 8059 6666
Fax +44 23 8059 6032
Email sdm@noc.soton.ac.uk
Internet www.soc.soton.ac.uk

Autosub 3
Autosub 6000
TOBI

Naval Sea Systems Command

1333 Isaac Hull Avenue S.E.
Stop 1070
Washington Navy Yard
DC 20376-1070
USA
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Internet www.supsalv.org

CURV-21
Deep Drone 8000
Orion Search System

Nexans Norway AS

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Tel +47 22 88 61 00
Fax +47 22 88 61 01
Email eldar.ystad@nexans.com
Internet www.nexans.no

Capjet 1MW
Capjet Spider

Ocean Modules Sweden AB

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Tel +46 120 12800
Fax +46 120 12838
Email info@ocean-modules.com
Internet www.ocean-modules.com

V8 Offshore
V8 Sii
V8 Work Class

Oceaneering International Inc

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Houston
TX 77041
USA
Tel +1 713 329 4500
Fax +1 713 329 4951
Internet www.oceaneering.com

Deep Ocean Search and Survey System (DOSS)

Hydra® Magnum 100
Hydra® Magnum 120
Hydra® Magnum Plus
Hydra® Maximum
Hydra® Millennium
Hydra® Millennium Plus
Hydra® Minimum
Magellan 725
Magellan 825
Nomad 6000
Ocean Discovery
Ocean Explorer 6000
Spectrum
SpiderBOT

OceanScan Marine Systems and Technology Lda

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Portugal
Tel +351 22 030 1576
Fax +351 22 030 1511
Email info@oceanscan-mst.com
Internet www.oceanscan-mst.com

LAUV

OceanServer Technology Inc

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Fax +1 508 678 0552
Email sales@ocean-server.com
Internet www.iver-auv.com

Iver2



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Burial Sled BS2

Burial Sled BS4

Oceanjet 200

Oceanjet 900

Vertical Injector

Outland Technology Inc

38190 Commercial Court

Slidell

LA 70458

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Tel +1 985 847 1104

Fax +1 985 847 1106

Email bmayerfield@outlandtech.com

Internet www.outlandtech.com

Outland 1000

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Fax +1 561 743 1313

Email bruce.lokay@us.perrymail.com

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Triton® T200

Triton® T400

Triton® T750

Triton® XLR

Triton® XLS

Triton® XLX

Phoenix International Inc

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Largo

MD 20774

USA

Tel +1 301 341 7800

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Email tjanaitis@phnx-international.com

Internet www.phnx-international.com

Remora 1000

Remora 6000

xBot G3

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20126 Milano

Italy

Tel +39 02 6449 1

Email marketing.energy@prysmian.com

Internet www.prysmian.com

Hydroplow 1

Hydroplow 2

Hydroplow HD-4

Hydroplow Post Lay

Sea Crawler

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Rotech House

Whitemyres Avenue

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Fax +44 1224 683144

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Internet www.rotech.co.uk

R2000

T8000

T4000

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LA14 2UB

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Fax +44 1229 870 208

Email info@rovtechsystems.co.uk

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Containerised Super Seaker

Mini Seaker

Rov-A-Cam

Super Seaker

Water Powered Crawler

Saab Seaeye Ltd

20 Brunel Way

Segensworth East

Fareham

Hampshire

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Fax +44 1489 898 001

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Seaeye Cougar-XT

Seaeye Cougar-XTi

Seaeye Falcon

Seaeye Falcon DR

Seaeye Jaguar

Seaeye Lynx

Seaeye Panther-XT

Seaeye Panther-XT Plus

Seaeye Tiger

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AUV 62-MR

Double Eagle Mk II

Double Eagle Mk III

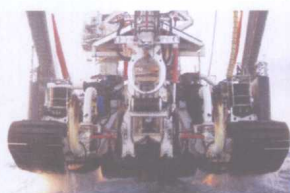
Sea Owl 500 Mk IV

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